

On Beyond Zebra

Jim Myers, Chief Scientist
Computational Science and Mathematics Directorate
Computational and Information Sciences Division
Pacific Northwest National Laboratory

Challenge some assumptions...

Just Make It Easier to Use

- Real-time Suites
 - CORE2000 (cross platform, A/V, VNC, Whiteboard, Chat, ... extensible)
- The only challenges?
 - Make A/V better (multicast)...
 - Work closer with users...
 - Integrate another key tool...
 - Use next version of Java...

Analysis

- Sociological
 - “I don’t collaborate”
 - “Why should I add my app?”
- Economic
 - Cost to maintain integration
 - Cost to expand user base/maintain as infrastructure
 - Cost to effectively use capabilities

Conclusion

A) Improve tech, train users, easier-to-use...

B) Rethink integrated suite

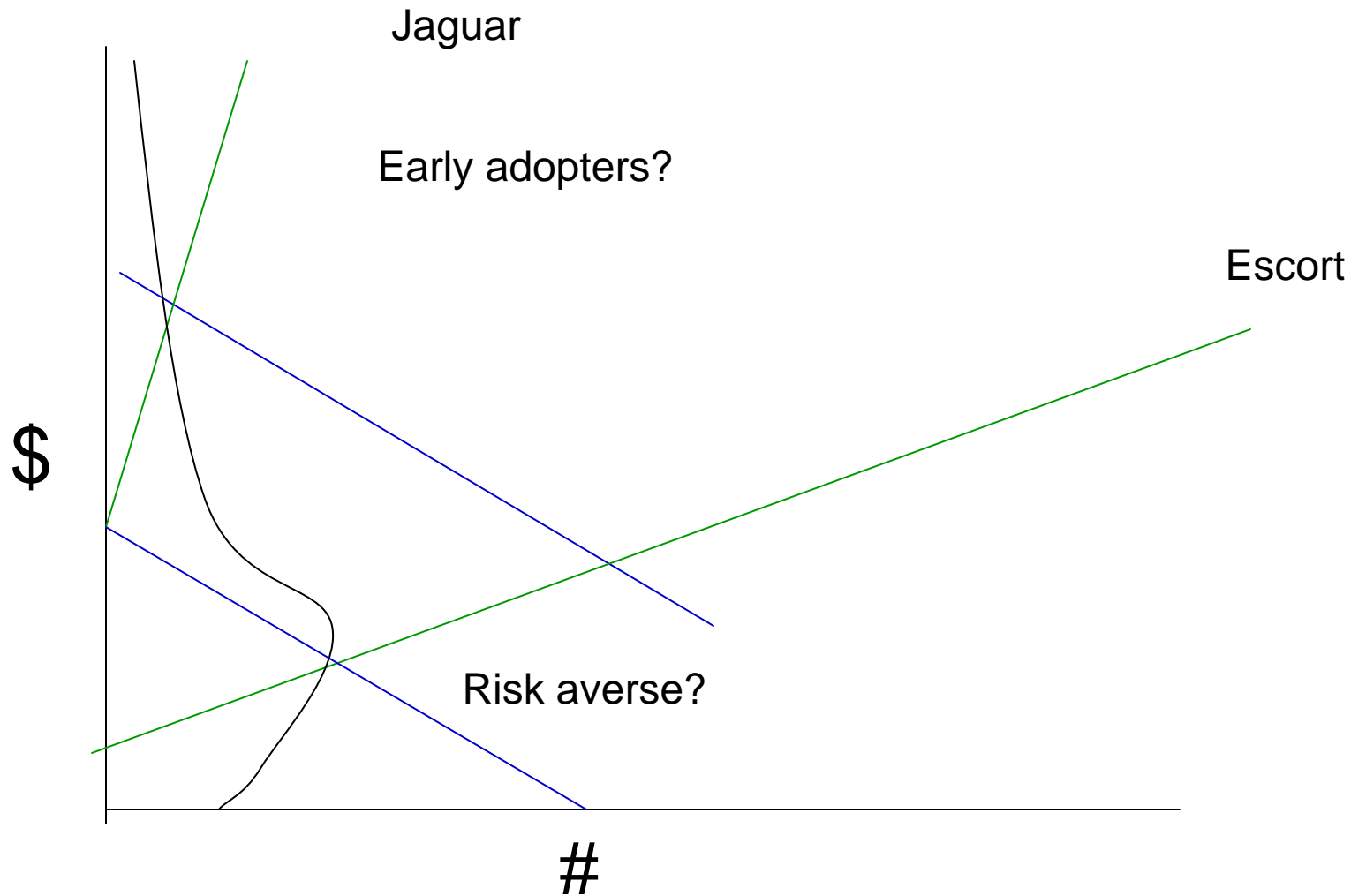
- Deploy individual tools that are most compelling (e.g. VNC plus ssh)
- Science first, collaborate second
- Dynamically include 'all' apps, upgrade efficiency as needed

...address social and economic issues through design

Econ 101

Demand

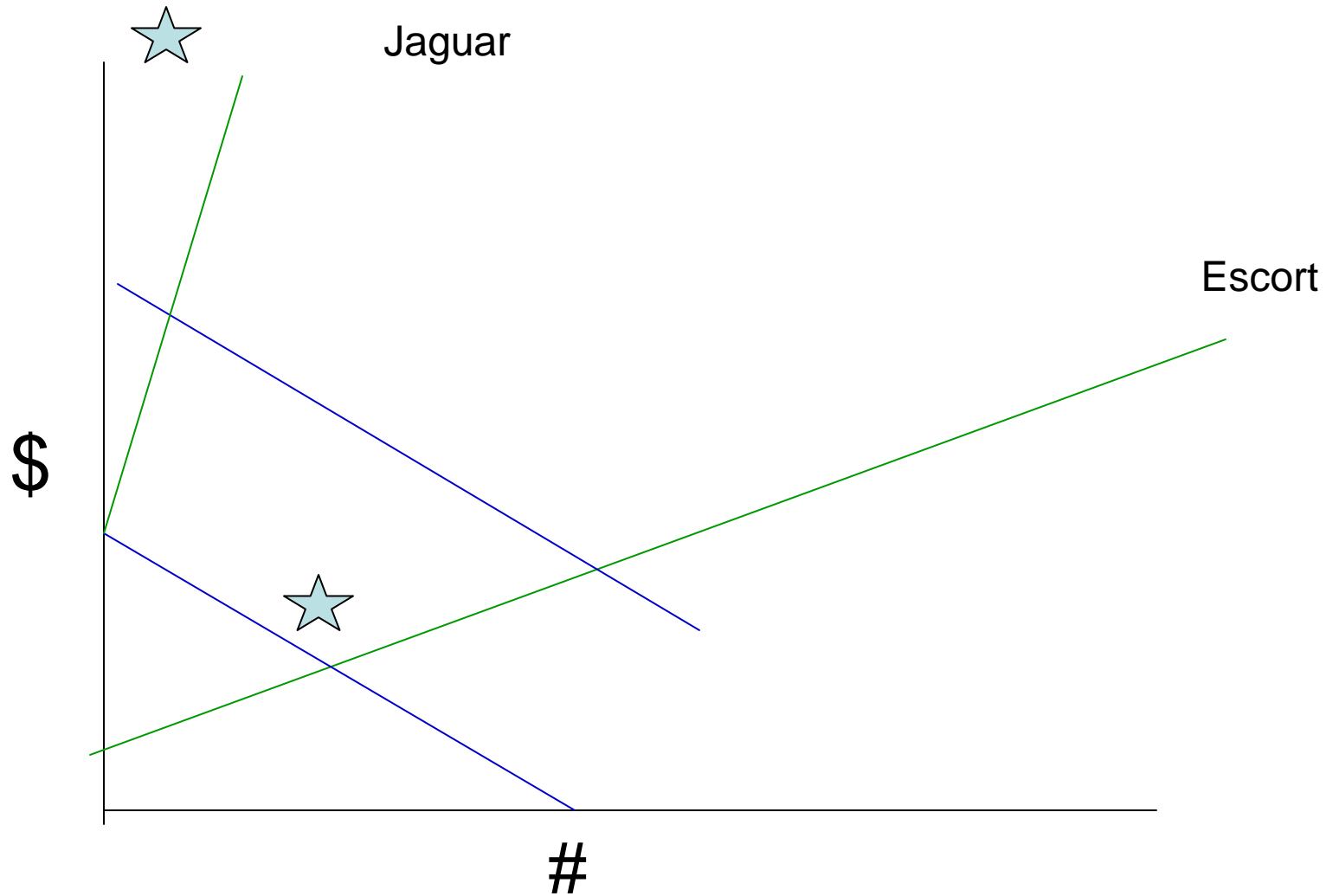
Supply



Econ 101

Demand

Supply



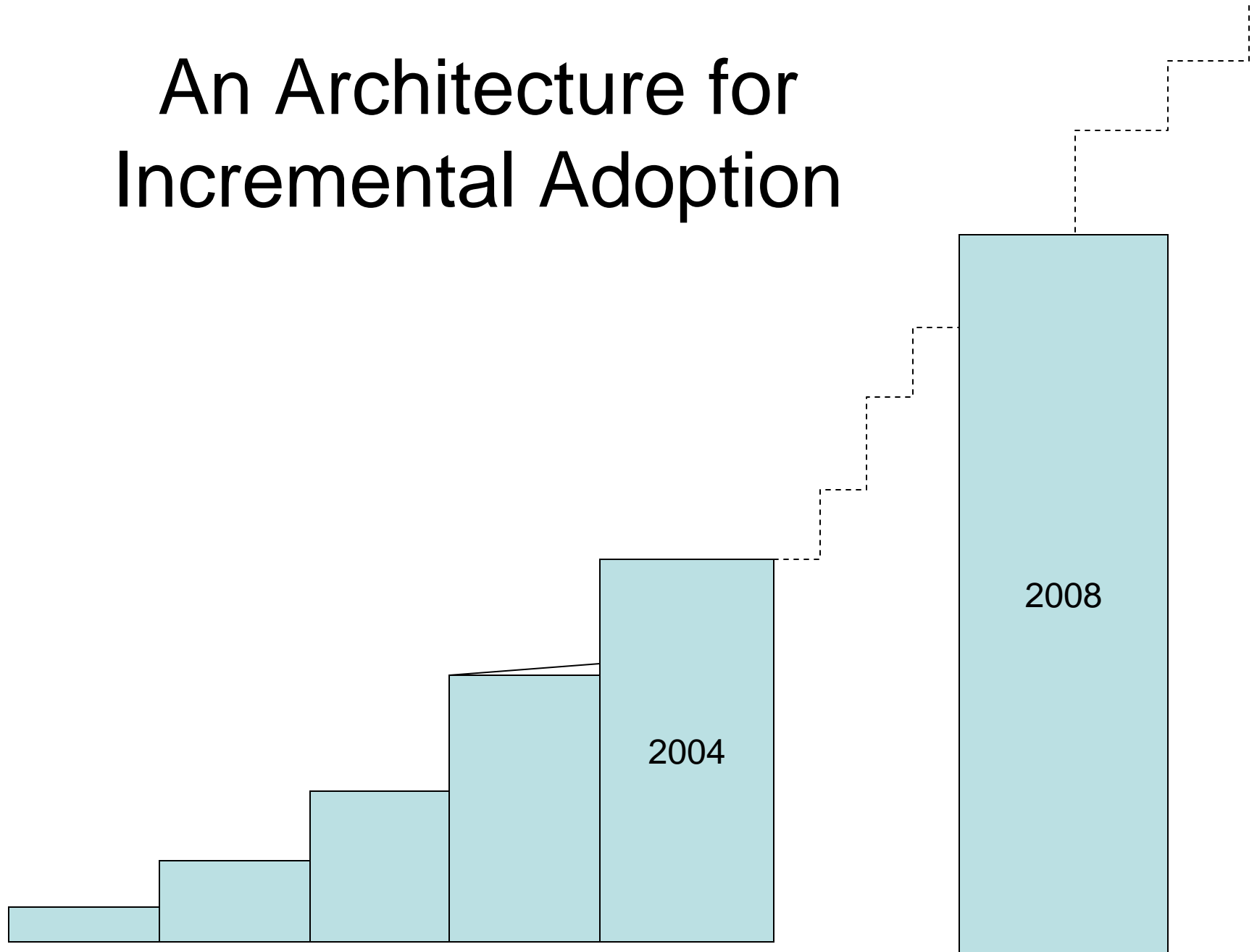
Conclusion

- A) We just need a low cost, low maintenance, high mileage, Jaguar minivan?
- B) We need a product line where we can up-sell and cross-sell?

The Science Bazaar

- The value of particular technologies/features varies across science domains and research groups
 - Scientists are making rational business decisions (as are we)
- Design for the bazaar, not the science in textbooks

An Architecture for Incremental Adoption



Conclusions

- A decade of collaboratories has given us a great base of capabilities and experience
- **Semantic technologies/ SOA / etc. give us a way of addressing issues we've defined away**
- We should be bold in defining the signature of the next NC effort and directly address large-scale adoption as well as advanced uses

I do not like green eggs and ham!



There's no end to the things you might
know,
Depending how far beyond Zebra you go
...